FIG. 1
PRIOR ART

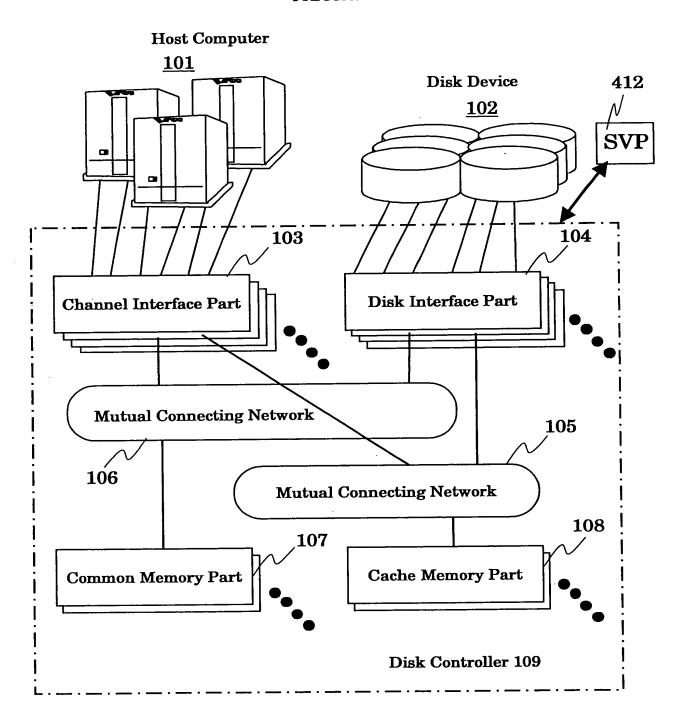
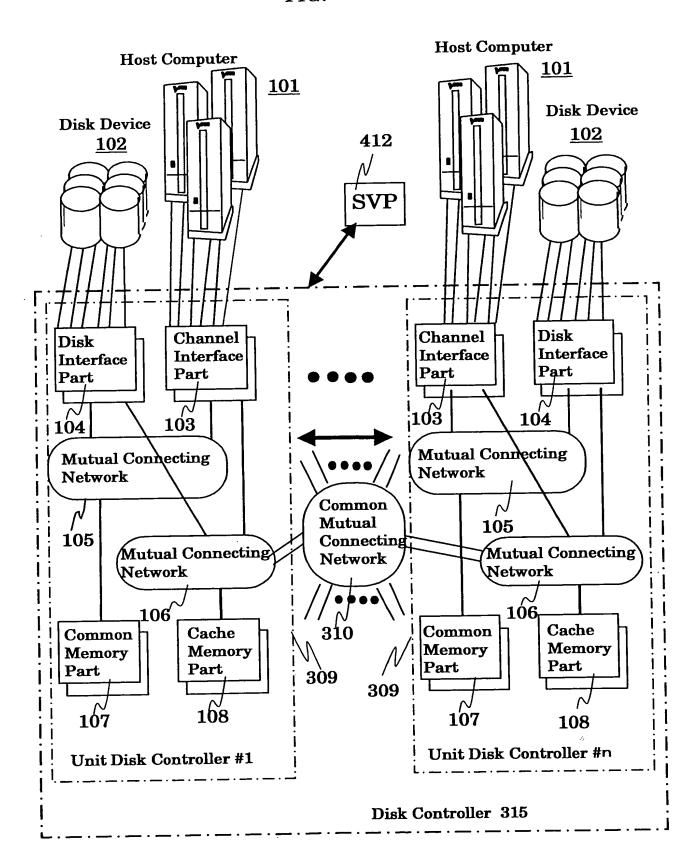


FIG. 2 **PRIOR ART Host Computer Host Computer** 101 101 Magnetic Tape Memory 212 412 210 SVPDisk Device **Common Mutual Connecting Disk Device** 102 102 Network 211 Channel Disk Disk Channel **Interface Part** Interface Part **Interface Part** Interface Part 105 105 104 103 104 103 Mutual Connecting 106 Mutual Connecting 106 Network Network Mutual Mutual Connecting Network Common Common Connecting Network **Memory Part Memory Part** Cache **107** Cache 107 **Memory Part Memory Part 108 108** Disk Controller 109 Disk Controller 109

FIG. 3



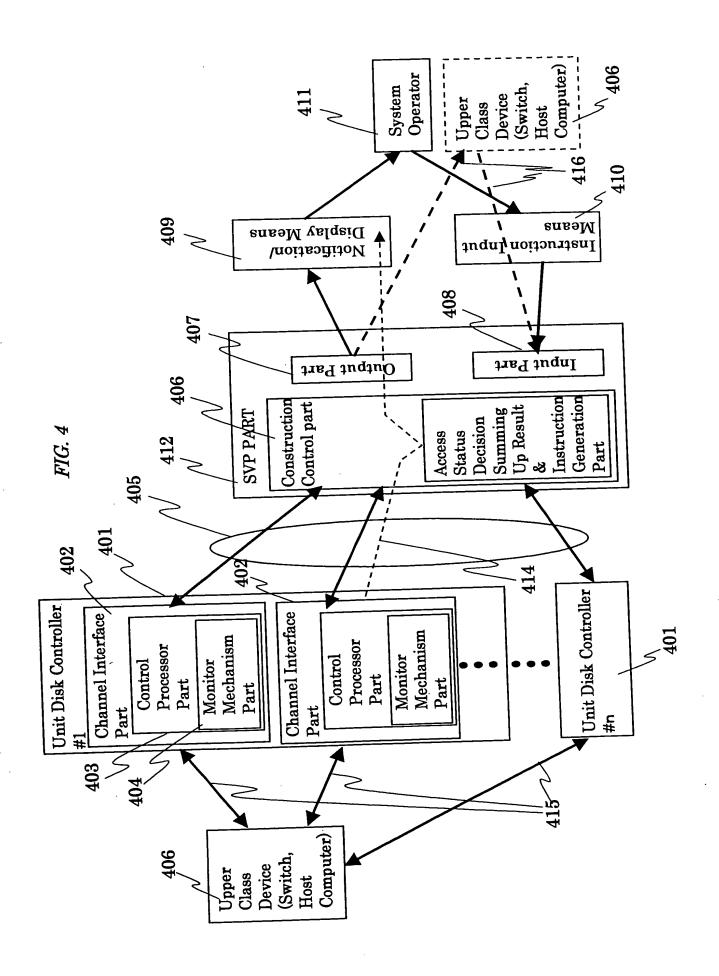


FIG. 5

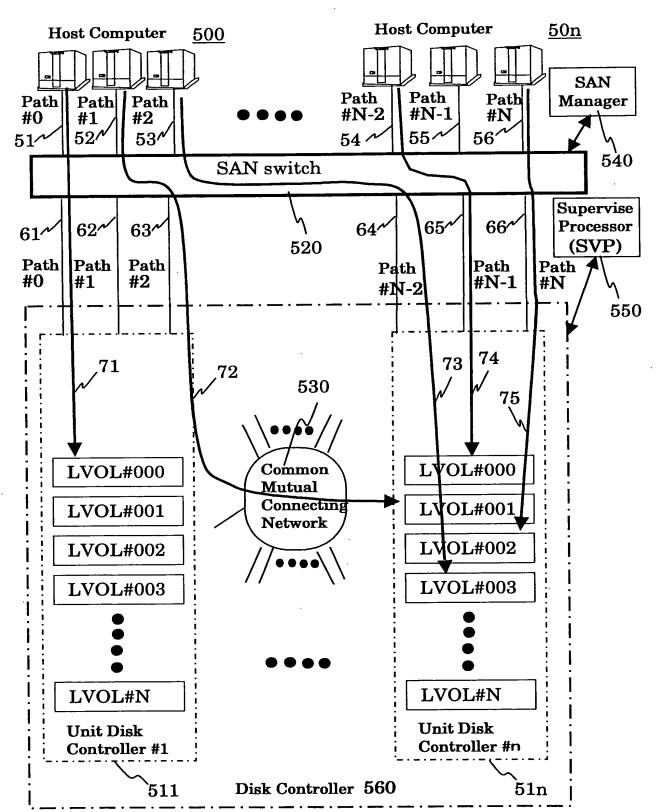


FIG. 6

Accessing	Host Side	Disk Side	Logical Volume Number						
Logical Path Path		Path	Podicar Animie raminer						
71	51	61	#0000000(Corresponding to LVOL #000 of Unit Disk Controller #0)						
72	52	63	#N-m(Corresponding to LVOL #001 of Unit Disk Controller #n)						
•	•	•	•						
•	•	•	•						
73	53	64	#N-m+2(Corresponding to LVOL #003 of Unit Disk Controller #n)						
74	54	65	#N-m-1(Corresponding to LVOL #000 of Unit Disk Controller #n)						
75	56	66	#N-m+1(Corresponding to LVOL #002 of Unit Disk Controller #n)						

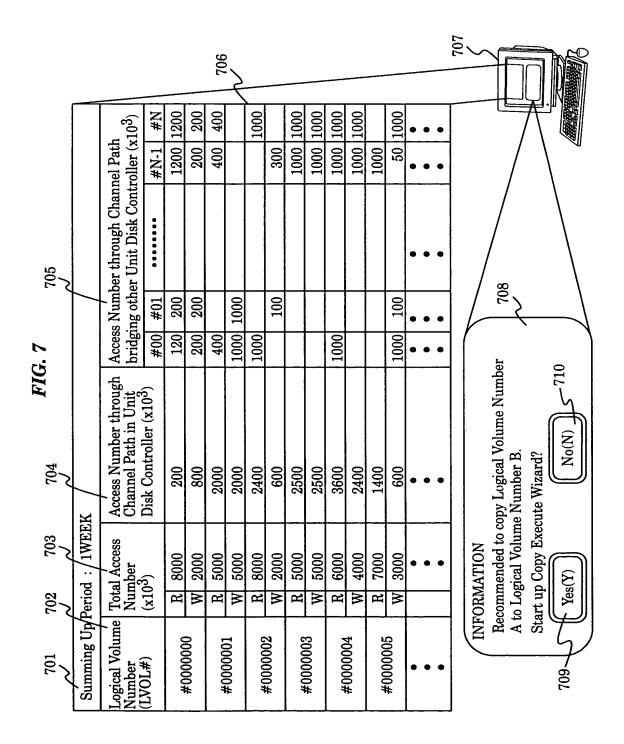


FIG. 8

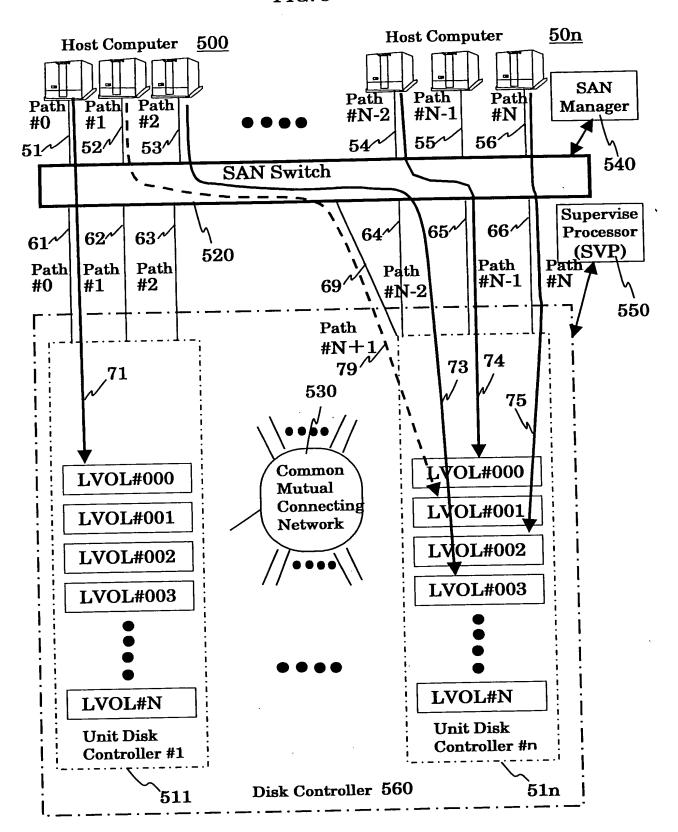


FIG. 9

<u>901</u>

INFOMATION Recommended to add Path #N+1 so that Logical Path from SAN Switch to Logical Volume #N-M of Unit Disk Controller #n is added. Yes(Y) No(N) 903 902

FIG. 10

<u>1001</u>

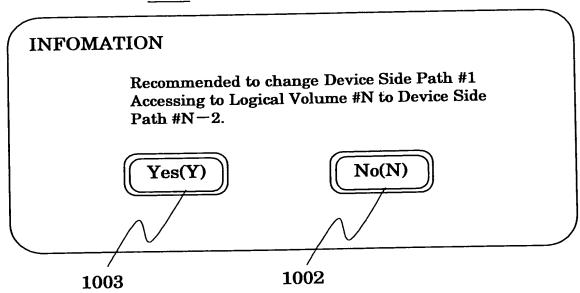


FIG. 11

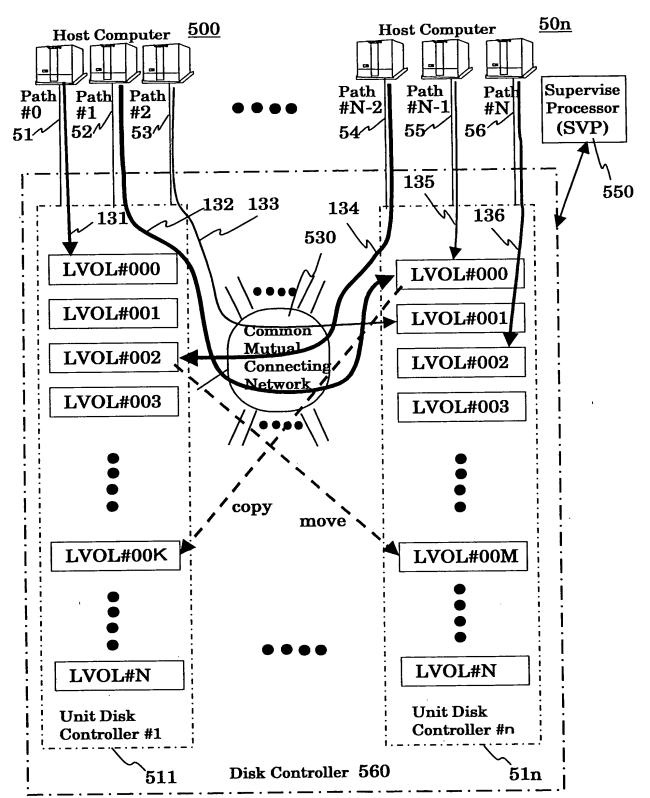
INFOMATION Logical Path Mapping is changed. Yes(Y) 1103

FIG. 12

<u>1201</u>

INFOMATION Logical Path Mapping is not changed. Yes(Y) 1203

FIG. 13



			10³)	#N-1 #N							•	•	•					200	100
			th (×	• • #N-2					8000	2000									
1405		Access Number per each Logical Path (×10³)	•	• • •															
	\nearrow		Access Number per each Logica	#2											800		6500	2900	
			Acc	#1															
14				0#	3200	2000													
1404 FIG. 14	\mathcal{N}	@DAY /	Access Number through Channel Path in Unit	Disk Controller ($\times 10^3$)	3200	2000	0	0	0	0	• • •		0	0	5200	4000	500	100	
1403	/	:19/00-23.00 @DAY	Total Access Number	103)	8000	2000	2000	2000	8000	2000				0	0	0009	4000	7000	3000
1402		eriod	Total Numb	<u>×</u>	22	M	8	8	22	≽				22	⋈	22	W	22	≽
$\frac{1401}{\sqrt{\frac{1}{\sqrt{1}}}}}}}}}}$		Summing Up Period:19	Logical Volume Number (LVOL#)		0000000#		#000001		#0000005		• • •		#N-2		#N-1		N #		

FIG. 15

1501

INFOMATION Recommended to move Logical Volume C to Logical Volume D. Start up Volume Move Execute Wizard? 1502 Yes(Y) No(N) Recommended to copy Logical Volume E to Logical Volume F. Start up Volume Copy Execute Wizard? Yes(Y) No(N)

1505

1504

FIG. 16

<u>1601</u>

INFOMATION Logical Volume C is moved to Logical Volume D. Yes(Y) Logical Volume E is copied to Logical Volume F. Yes(Y) 1604

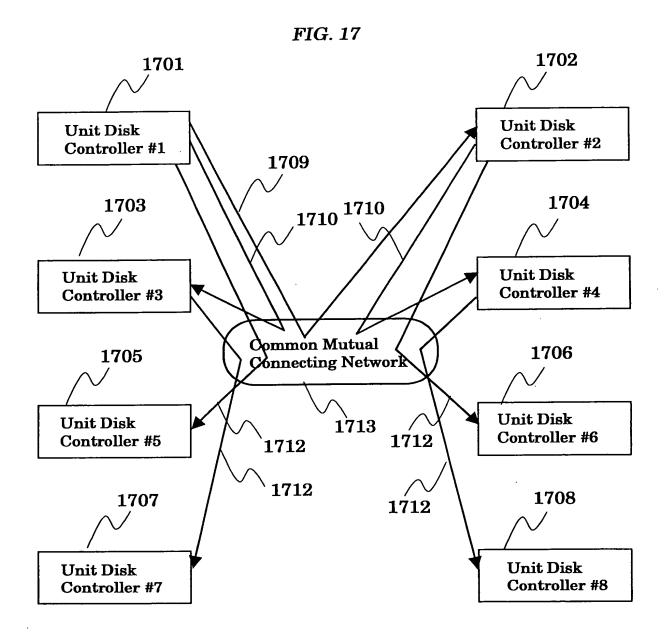


FIG. 18

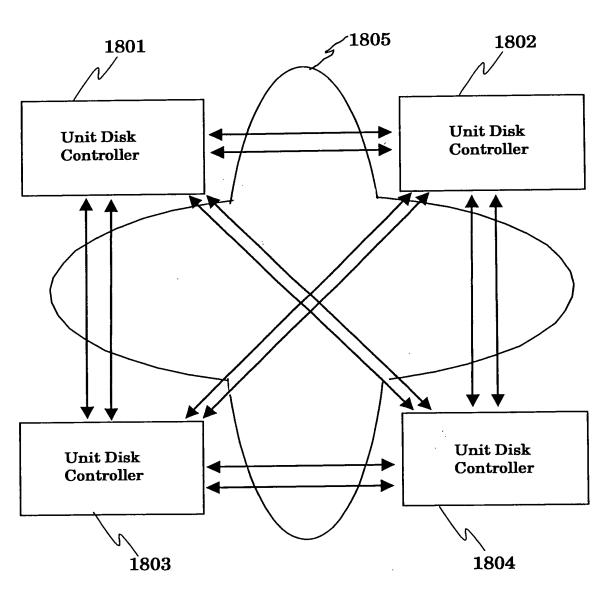


FIG. 19

